

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562698

Luminaire Tested: **SQ4-PC3-075U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562698
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

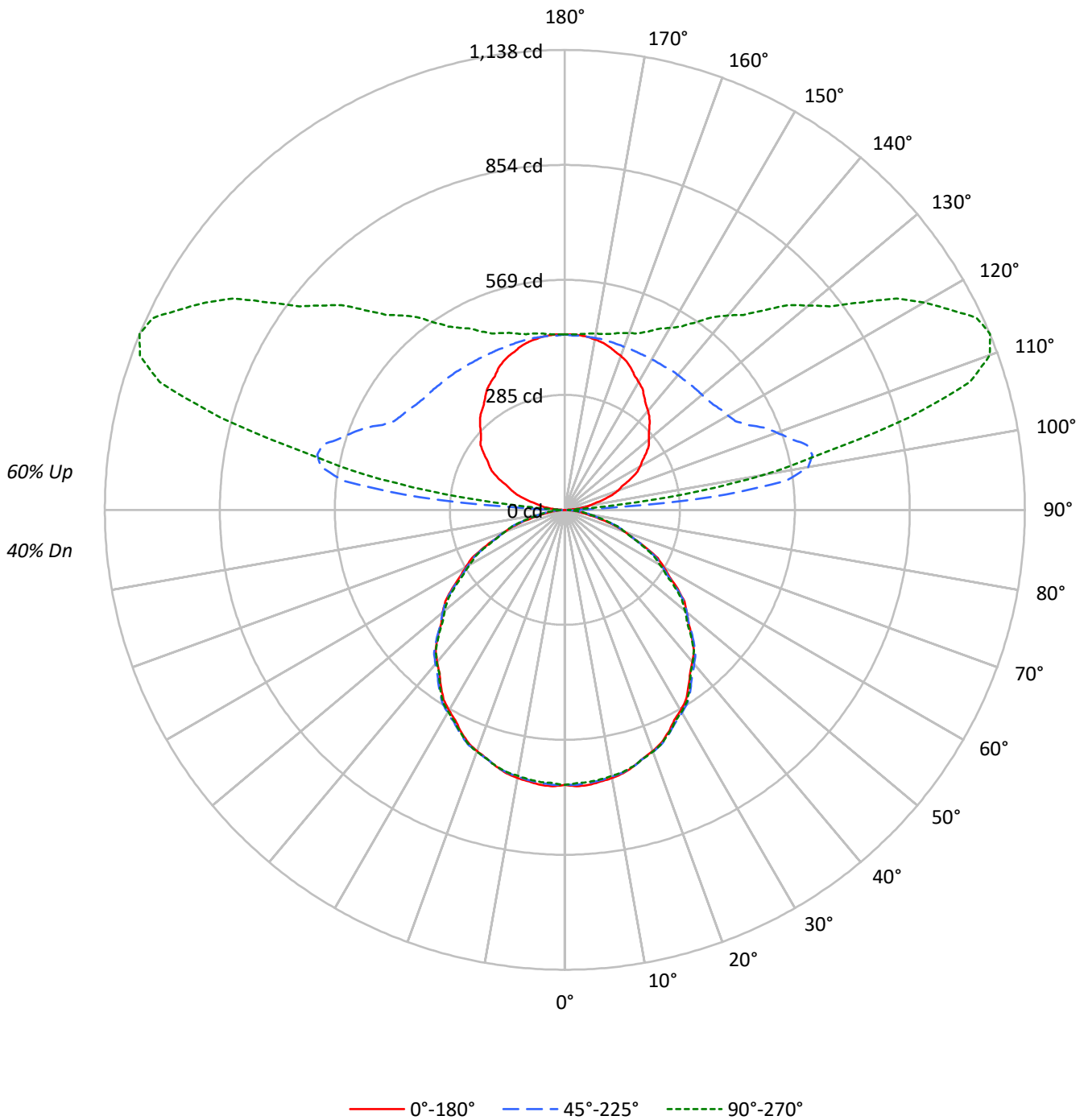
Lumens per Lamp: N/A
Luminaire Lumens: 4684.5 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34				
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28				
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24				
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15				
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14				
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6326	6286	6263
10°	6312	6282	6264
15°	6278	6278	6273
20°	6237	6255	6255
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5912	5997	5935
45°	5805	5847	5755
50°	5654	5654	5563
55°	5474	5403	5323
60°	5209	5106	5023
65°	4816	4720	4678
70°	4216	4251	4232
75°	3394	3750	3775
80°	2412	3183	3214
85°	1471	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.4
10°-20°	184.8	3.9
20°-30°	279.9	6.0
30°-40°	335.6	7.2
40°-50°	342.2	7.3
50°-60°	298.7	6.4
60°-70°	213.9	4.6
70°-80°	110.2	2.4
80°-90°	29.0	0.6
90°-100°	204.6	4.4
100°-110°	562.9	12.0
110°-120°	581.0	12.4
120°-130°	465.5	9.9
130°-140°	365.6	7.8
140°-150°	280.2	6.0
150°-160°	201.4	4.3
160°-170°	123.2	2.6
170°-180°	41.5	0.9
0°-30°	529.2	11.3
0°-40°	864.8	18.5
0°-60°	1505.7	32.1
0°-90°	1858.7	39.7
90°-120°	1348.4	28.8
90°-150°	2459.7	52.5
90°-180°	2826.0	60.3
0°-180°	4684.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	676	679	677	676	65
15°	657	652	657	657	657	185
25°	607	603	611	609	609	279
35°	534	533	542	538	538	334
45°	445	444	448	442	441	342
55°	340	336	336	331	331	303
65°	221	216	216	214	214	218
75°	95	100	105	106	106	103
85°	14	21	25	26	25	19
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.6	680.6	680.6	680.6	680.6
2.5°	684.7	678.7	680.6	679.1	676.6
5°	683.1	676.4	678.7	676.8	676.2
7.5°	678.2	671.4	674.6	673.3	672.7
10°	673.7	666.9	670.5	669.3	668.6
12.5°	667.6	661.4	665.5	664.2	664.1
15°	657.3	651.8	657.3	657.3	656.7
17.5°	644.3	639.3	645.2	645.6	645.2
20°	635.2	629.7	637.1	636.5	637.1
22.5°	624.2	619.6	627.6	625.9	626.5
25°	606.9	602.6	611.3	609.4	609.4
27.5°	586.5	583.4	592.9	590.9	590.9
30°	572.9	569.8	579.8	577.3	577.3
32.5°	557.7	555.6	565.2	562.1	562.1
35°	533.8	532.6	542.0	538.2	538.2
37.5°	509.1	508.0	516.5	511.9	510.5
40°	490.9	490.3	497.9	492.8	492.8
42.5°	472.8	472.2	478.7	472.7	472.7
45°	444.9	443.7	448.1	442.4	441.1
47.5°	414.5	413.3	416.1	409.9	409.3
50°	393.9	392.6	393.9	388.2	387.6
52.5°	372.7	370.5	370.7	365.0	364.9
55°	340.3	336.0	335.9	330.9	330.9
57.5°	306.0	300.4	300.9	296.6	295.9
60°	282.3	276.2	276.7	272.9	272.2
62.5°	259.1	252.0	253.5	249.2	249.1
65°	220.6	215.6	216.2	214.3	214.3
67.5°	183.5	179.0	182.3	180.7	180.6
70°	156.3	153.2	157.6	157.5	156.9
72.5°	131.1	131.0	136.4	136.4	136.8
75°	95.2	99.5	105.2	105.9	105.9
77.5°	63.5	71.2	77.5	77.8	77.6
80°	45.4	54.0	59.9	61.1	60.5
82.5°	30.8	39.9	44.7	46.0	45.4
85°	13.9	21.3	25.2	25.8	25.2
87.5°	4.2	9.2	11.4	11.7	10.7
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)